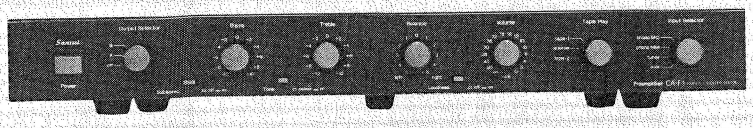
SERVICE MANUAL

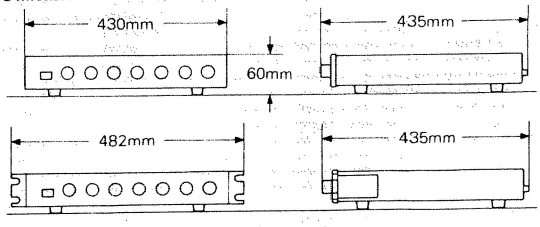
PRE AMPLIFIER

SANSUI CA-F1



SPECIFICATIONS

Total harmonic distortion (20 Hz to 20 kHz)
AUX . . . . . less than 0.005 % at 1V
Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method)
AUX . . . . . less than 0.005 % at 1V
Frequency response (at 1 watt)
. . . . . 5 to 600,000 Hz, +0 dB, −3 dB
RIAA curve deviation (PHONO, 20 Hz to 20 kHz)
. . . . . +0.2 dB, −0.2 dB
Input sensitivity and impedance (1 kHz, for rated output)
PHONO-MC . . . . . 0.1 mV/10 ohms
(Max. input capability; 24 mV at 1 kHz, less than 0.03 % total harmonic distortion)
PHONO-MM . . . . . 2.5 mV/47 kilohms
(Max. input capability; 350 mV at 1 kHz, less than 0.008 % total harmonic distortion)
AUX . . . . . 150 mV/47 kilohms
Output level and impedance (1,000 Hz)
TAPE REC . . . . . 150 mV/47 kilohms
OUTPUT . . . . . 1.0 V/47 kilohms
(Maximum output level: 10 V at 0.005 % total harmonic distortion)
Rise time . . . . . 0.6 μsec
Slew rate . . . . . ±50 V/μsec
Channel separation (1 kHz, at rated output)
PHONO-MC . . . . . 75 dB
PHONO-MM . . . . . 85 dB
AUX . . . . . 88 dB
Hum and noise (short-circuit, A-network)
PHONO-MC . . . . . 75 dB
PHONO-MM . . . . . 90 dB
AUX . . . . . 100 dB
Controls
BASS . . . . . +7 dB, −9 dB (50 Hz)
TREBLE . . . . . +7 dB, −7 dB (15 kHz)
SUBSONIC . . . . . −3 dB (16 Hz), 6 dB/oct
LOUDNESS . . . . . 9 dB (50 Hz)
(Volume control: −30 dB)
5 dB (10 kHz)
Power requirements
Power voltage . . . . 100, 120, 220, 240 V (50/60 Hz)
For U.S.A and Canada
. . . . . 120 V (60 Hz)
Power consumption
Rated consumption
. . . . . 45 watts
Dimensions



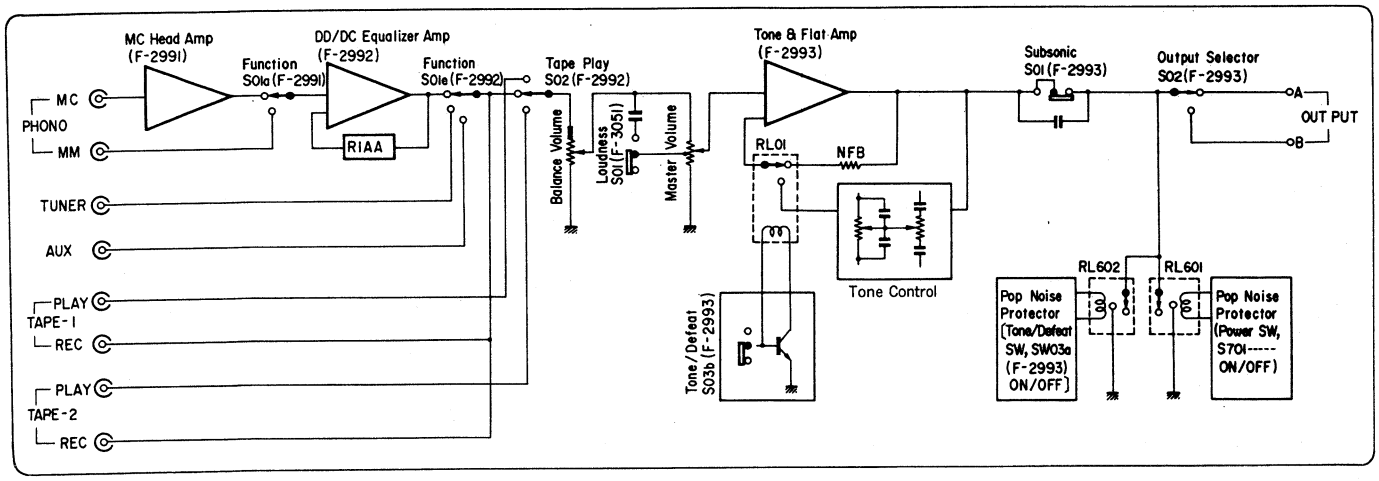
Weight . . . . . 6.1 kg (13.4 lbs) net
7.5 kg (16.5 lbs) packed

* Design and specifications subject to changes without notice for improvements.
* In order to simplify the explanation illustrations may sometimes differ from the originals.

Sansui

SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM



2. OPERATIONS

Fig. 2-1

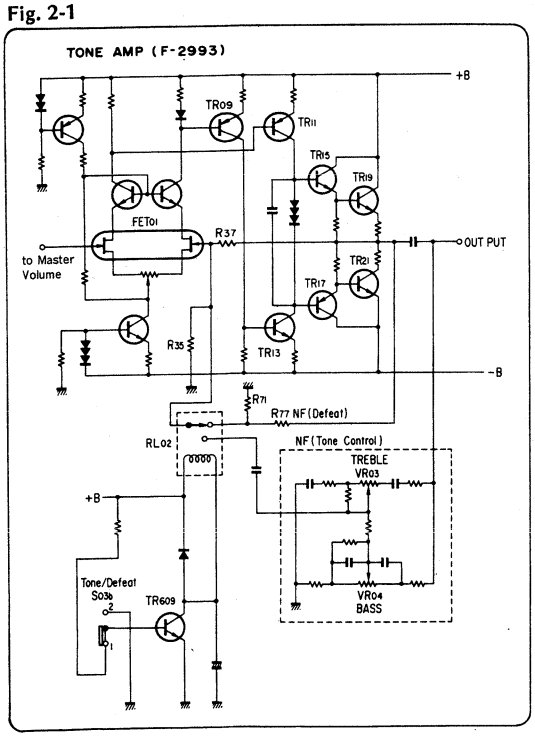
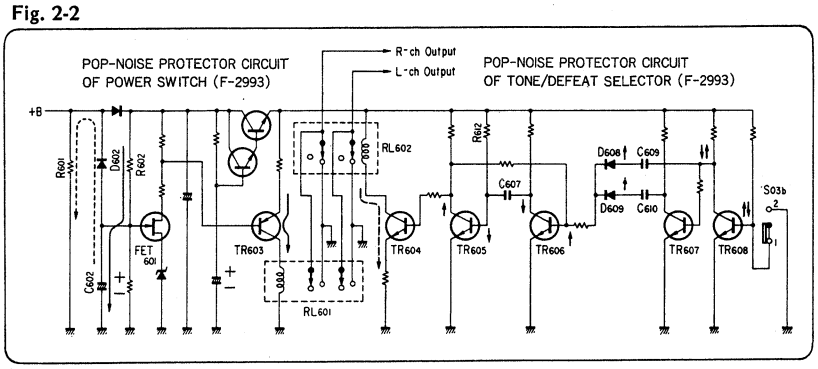


Fig. 2-2



The circuitry employed in CA-F1 is push-pull drive DC amp configuration from MC head amp to tone amp, farther diamond differential circuit is adapted to equalizer amp that dynamic distortion such as TIM & envelope distortion is improved.

2-1. Operation of Tone Amp Section (See Fig. 2-1)

Boxandall type tone control circuit is employed to the tone amp of this model. When altering the NFB loop by tone/defeat switch to actuate RL02, tone amp section can be made as flat amp or tone control function. When actuating tone amp as tone control function, DC 0V deviation is suppressed because the same amount of DC NFB at tone defeat function is fed through R37 and R35. Consequently, when altering tone/defeat switch, pop-noise is prevented and the circuit operation is stabilized.

2-2. Operation of Pop-noise Protector Circuit (See Fig. 2-2)

1) Pop-noise Protector Circuit of Tone/defeat Selector

This circuit is composed of trigger pulse generator, monostable multivibrator, and relay-drive circuit.

The monostable multivibrator consists of TR605 & TR606 and normally TR605 is ON and TR606 is OFF.

When turning the tone/defeat switch, S03, TR608 becomes OFF or TR607 is OFF and trigger pulse is generated at base of TR606 by C609 and D608, as well as C610 and D609.

When trigger pulse is applied to the base of TR606, TR605 turns OFF, TR604 turns ON for a certain periode by the time constant of C607 and R612, then the relay RL602 is actuated. By the above successive function, at the moment when turning the tone/defeat switch, the pre-amp output is shorted to the ground.

2) Pop-noise Protector Circuit of Power Switch

When power is switched ON, C602 is charged through R602 and when its charging voltage reaches over the cut-off voltage of FET601 and zenner voltage, this FET turns ON, which makes base voltage of TR603 decrease and turns TR603 ON, therefor relay RL601 turns ON. As a result, the shorting between pre-amp output and earth is released after cirtain time defined by time constant of C602, R602 and cut-off voltage of FET.

When turning the power OFF, discharging current of C602 flows through D602 & R601 and turns FET601 OFF, TR603 OFF and relay RL601 OFF.

3. ADJUSTMENTS (See Bottom View on page 7)

Notes: 1. Master Volume . . . . . Minimum
2. Room Temperature . . . . . 18°C ~ 28°C (65°F ~ 83°F)
3. For this adjustment, run the unit for more than 3 minutes after the power is switched ON.

3-1. F-2994 Power Supply Voltage Adjustment

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	Voltage Adj. — side	Between GND & Connector Pin ⑧	VR601 on F-2994	−40V	
2	Voltage Adj. + side	Between GND & Connector Pin ⑦	VR602 on F-2994	+40V	

3-2. F-2993 Flat Amp Circuit Adjustment

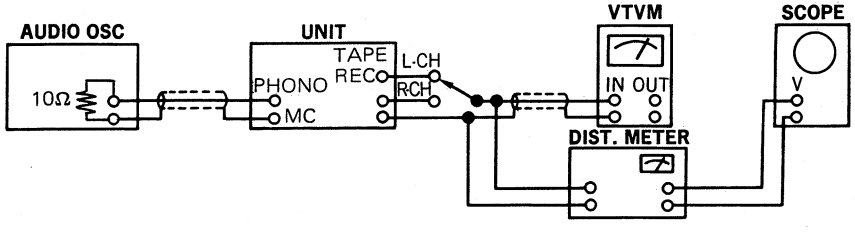
STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	DC 0V Adj. L-CH	Between GND & common joint of emitter resistors R61, R63	VR01 on F-2993	DC 0V ±5 mV	Before turning ON power switch, set VR01 & VR02 to center position. Defeat Switch . . . . . ON
2	DC 0V Adj. R-CH	Between GND & common joint of emitter resistors R62, R64	VR02 on F-2993		

3-3. F-2992 Equalizer Circuit Adjustment

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	DC 0V Adj. L-CH	Between GND & common joint of emitter resistors R81, R83	VR01 on F-2992	DC 0V ±20 mV	Before turning ON power switch, set VR01 & VR02 to center position.
2	DC 0V Adj. R-CH	Between GND & common joint of emitter resistors R82, R84	VR02 on F-2992		

3-4. F-2991 MC Head Amp Circuit Adjustment

STEP	SUBJECT		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1	Balance Adj. L-CH	1	Connect VTVM to TAPE-REC (L-CH)	Level Volume of audio oscillator	Set output level of TAPE-REC to 20V	Feed sine-wave signal, 10 kHz from audio oscillator to PHONO-MC. Connect 10Ω, 1/4W resistor, across output terminal of audio oscillator to have impedance matching.
		2	Connect distortion meter to TAPE-REC (L-CH)	VR01 on F-2991	Minimum distortion	
2	Balance Adj. R-CH	1	Connect VTVM to TAPE-REC (R-CH)	Level Volume of audio oscillator	Set output level of TAPE-REC to 20V	
		2	Connect distortion meter to TAPE-REC (R-CH)	VR02 on F-2991	Minimum distortion	

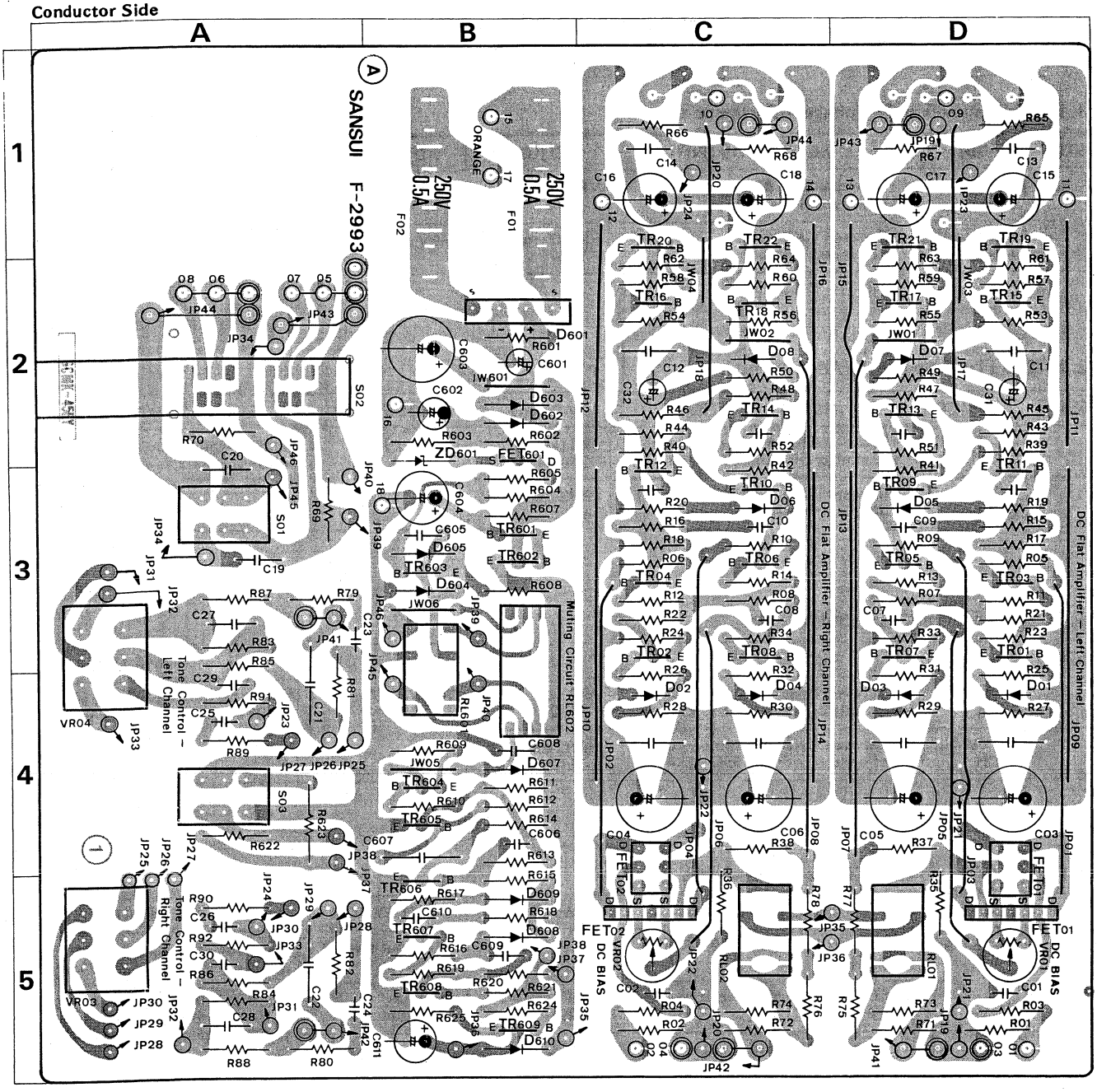


4. PARTS LOCATION & PARTS LIST

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

4-1. F-2993 Tone Amp Circuit Board (Stock No. 7562841)

Conductor Side



Parts List <F-2993>

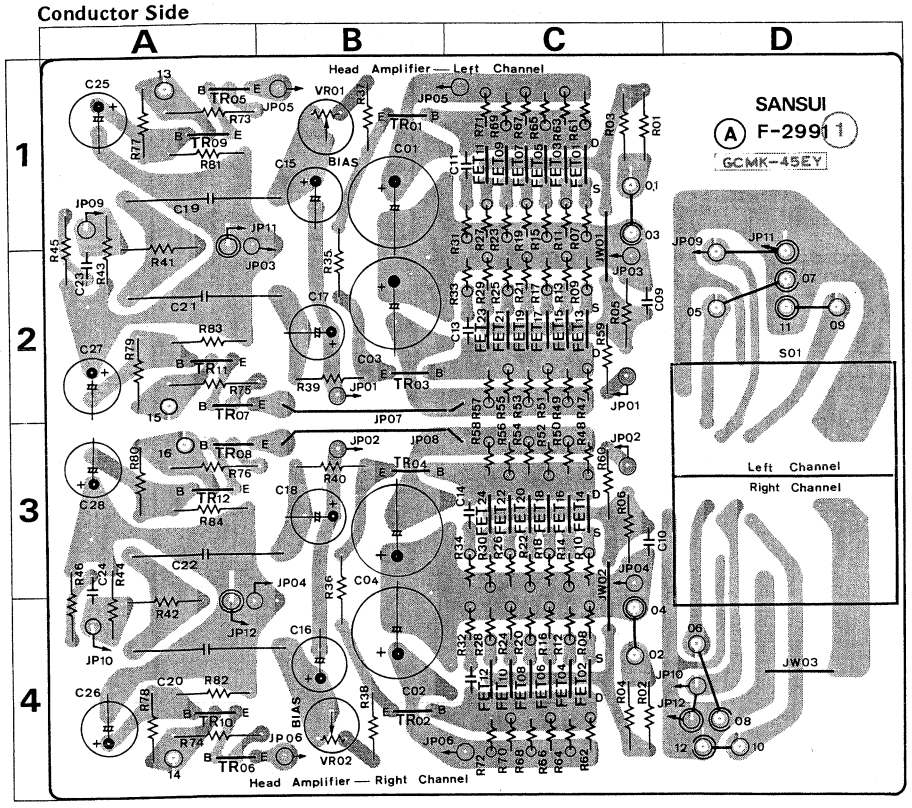
Parts No.	Stock No.	Description	Position
•Transistor			
TR01, 02	0301090, 1	2SA992 F, E	3D. 3C
TR03, 04	0306740, 1	2SC1845 F, E	3D. 3C
TR05, 06	0306740, 1	2SC1845 F, E	3D. 3C
TR07, 08	0308521, 2	2SD438 E, F	3D. 3C
TR09, 10	0301090, 1	2SA992 F, E	3D. 3C
TR11, 12	0301090, 1	2SA992 F, E	3D. 3C
TR13, 14	0306740, 1	2SC1845 F, E	2D. 2C
TR15, 16	0306740, 1	2SC1845 F, E	2D. 2C
TR17, 18	0301090, 1	2SA992 F, E	2D. 2C
TR19, 20	0308521, 2	2SD438 E, F	1D. 1C
TR21, 22	0303361, 2	2SB560MP E, F	1D. 1C
TR601	0306290, 1	2SC1400 (1) E, U	3B
TR602	0308521, 2	2SD438 E, F	3B
TR603	0301090, 1	2SA992 F, E	3B
TR604	0306740, 1	2SC1845 F, E	4B
TR605	0306290, 1	2SC1400 (1) E, U	4B
TR606	0306290, 1	2SC1400 (1) E, U	5B
TR607	0306290, 1	2SC1400 (1) E, U	5B
TR608	0306290, 1	2SC1400 (1) E, U	5B
TR609	0306581, 2	2SC1634 6, 7	5B
•FET			
FET01, 02	0370311, 2	2SK129 L, M	5D. 5C
	0370361 ~ 4	μPA68H L1, L2, M1, M2	
FET601	0370341 ~ 3	2SK163 K2, L1, L2	2B
•Varistor			
D 01, 02	0340150	MV12	4D. 4C
D 03, 04	0340170	MV103	4D. 4C
D 07, 08	0340170	MV103	2D. 2C
•Diode			
D 05, 06	0311160	1S2473D	3D. 3C
D 601	0311700	RB-152	2B
D 602	0310340	10D1	2B
D 603	0310340	10D1	2B
D 604	0310340	10D1	3B
D 605	0311160	1S2473D	3B
D 607	0310340	10D1	4B
D 608	0311160	1S2473D	5B
D 609	0311160	1S2473D	5B
D 610	0310340	10D1	5B
•Zener Diode			
ZD601	0316230	RD9.1E B	2B
C 01, 02	0623330	33pF 125V P.C.	5D. 5C
C 07, 08	0680001	0.001μF 100V M.C.	3D. 3C
C 09, 10	0622182	1800pF 125V P.C.	3D. 3C
C 11, 12	0681014	0.047μF 400V M.C.	2D. 2C
C 13, 14	0680057	0.22μF 100V M.C.	1D. 1C
C 19, 20	0680063	0.39μF 100V M.C.	3A
C 21, 22	0680065	0.47μF 100V M.C.	4A. 5A
C 23, 24	0680033	0.022μF 100V M.C.	3A. 5A
C 25, 26	0680009	0.0022μF 100V M.C.	4A. 5A
C 27, 28	0680055	0.18μF 100V M.C.	3A. 5A

Parts List <F-2993>

Parts No.	Stock No.	Description	Position
C 29, 30	0680035	0.027μF 100V M.C.	4A. 5A
C 602	0585100	10μF 50V E.C.	2B
C 607	0602688	0.68μF 100V M.C.	4B
C 609	0680046	0.075μF 100V M.C.	5B
C 610	0680046	0.075μF 100V M.C.	5B
R 33, 34	0210151	150Ω 1/2W N.I.R.	3D. 3C
R 39, 40	0210182	1.8kΩ 1/2W N.I.R.	2D. 2C
R 41, 42	0210182	1.8kΩ 1/2W N.I.R.	3D. 3C
R 43, 44	0210222	2.2kΩ 1/2W N.I.R.	2D. 2C
R 51, 52	0210222	2.2kΩ 1/2W N.I.R.	2D. 2C
R 53, 54	0210331	330Ω 1/2W N.I.R.	2D. 2C
R 55, 56	0210331	330Ω 1/2W N.I.R.	2D. 2C
R 57, 58	0210100	10Ω 1/2W N.I.R.	2D. 2C
R 59, 60	0210100	10Ω 1/2W N.I.R.	2D. 2C
R 61, 62	0210470	47Ω 1/2W N.I.R.	2D. 2C
R 63, 64	0210470	47Ω 1/2W N.I.R.	2D. 2C
R 623	0211102	1.0kΩ 1W N.I.R.	4A
RL01, 02	1150620	Relay	5D. 5C
RL601	1150620	Relay	4B
RL602	1150630	Relay	4B
VR01, 02	1034150	100Ω DC 0V Adj. Volume	5D. 5C
VR03	1015510, 1	50kΩ (C) x 2 Treble Volume	5A
VR04	1015510, 1	50kΩ (C) x 2 Bass Volume	3A
S 01	1131930	Subsonic Switch	3A
S 02	1190670	Output Selector Switch	2A
S 03	1131930	Tone/Defeat Switch	4A
F 01, 02	0431210	0.5A 250V AC Fuse	1B

4-2. F-2991 MC Head Amp Circuit Board (Stock No. 7551521)

Conductor Side

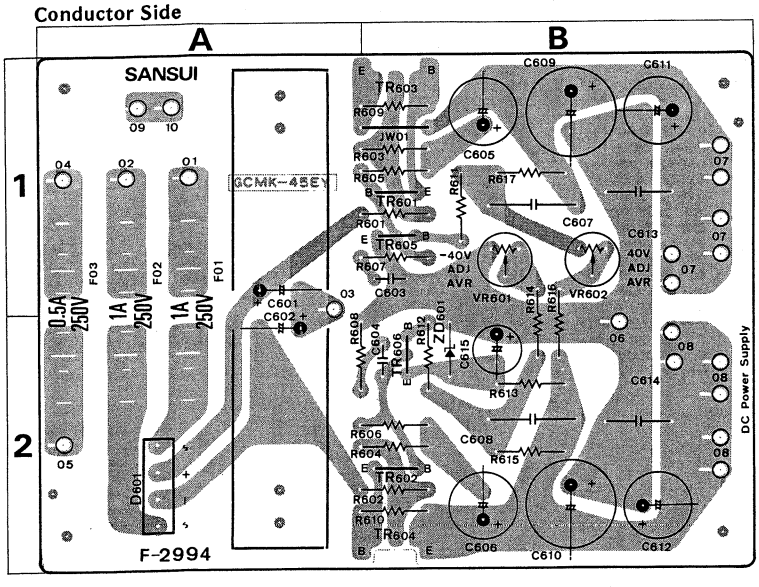


Parts List <F-2991>

Parts No.	Stock No.	Description	Position
•Transistor			
TR01, 02	0306740, 1	2SC1845 F, E	1B. 4B
TR03, 04	0301090, 1	2SA992 F, E	2B. 3B
TR05, 06	0308521, 2	2SD438 E, F	1A. 4A
TR07, 08	0303361, 2	2SB560MP E, F	2A. 3A
TR09, 10	0306740, 1	2SC1845 F, E	1A. 4A
TR11, 12	0301090, 1	2SA992 F, E	2A. 3A
•FET			
FET01 ~ 12	0370341 ~ 4	2SK163 K2, L1, L2, M1	1, 4C
FET13 ~ 24	0370331 ~ 4	2SJ44 K2, L1, L2, M1	2, 3C
C 09, 10	0622102	1000pF 125V P.C.	2C. 3C
C 11, 12	0622101	100pF 125V P.C.	1C. 4C
C 13, 14	0622101	100pF 125V P.C.	2C. 3C
C 19, 20	0681003	1μF 250V M.C.	1A. 4A
C 21, 22	0681003	1μF 250V M.C.	2A. 3A
C 23, 24	0680001	0.001μF 100V M.C.	2A. 3A
R 73 ~ 76	0211101	100Ω 1W	1, 2, 3, 4A
R 73 ~ 76	0211101	100Ω 1W	1, 2, 3, 4A
R 73 ~ 76	0211181	180Ω 1W	1, 2, 3, 4A
R 73 ~ 76	0211271	270Ω 1W	1, 2, 3, 4A
VR01, 02	1034170, 1	220Ω (B) Balance Adj. Volume	1B. 4B
S 01	1102780	Function Switch	3D

4-3. F-2994 Power Supply Circuit Board (Stock No. 7503391)

Conductor Side

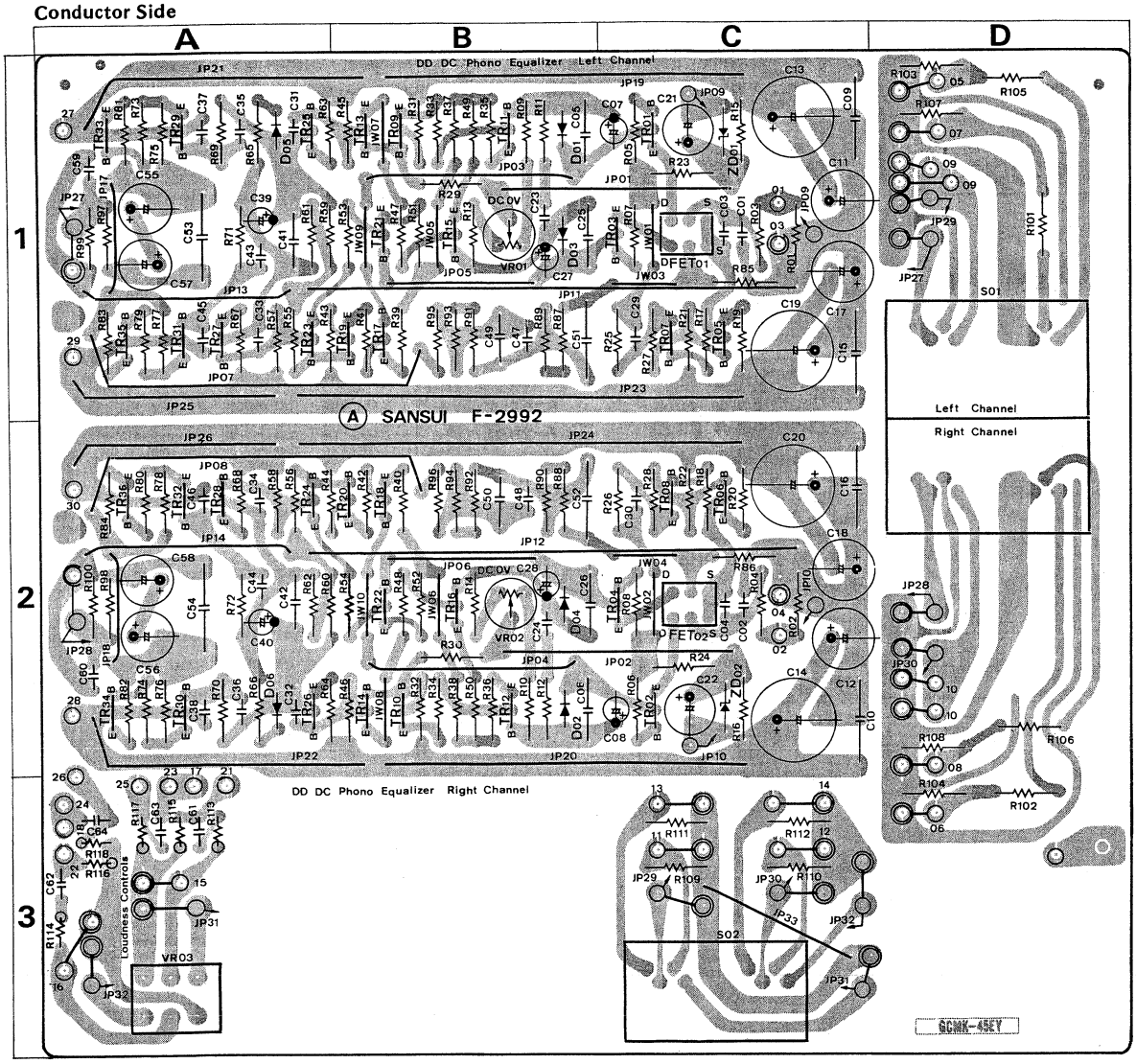


Parts List <F-2994>

Parts No.	Stock No.	Description	Position
•Transistor			
TR601	0306740, 1	2SC1845 F, E	1B
TR602	0301090, 1	2SA992 F, E	2B
TR603	0308391, 2	2SD313AL D, E	1B
TR604	0303231, 2	2SB507V11 AL D, E	2B
TR605	0306740, 1	2SC1845 F, E	1B
TR606	0301090, 1	2SA992 F, E	1B
•Diode			
D 601	0311700	RB-152	2A
•Zener Diode			
ZD601	0316390	RD6.2E B	2B
C 601, 602	0516102	1000μF 63V E.C.	1A.2A
C 603	0622471	470pF 125V P.C.	1B
C 604	0622471	470pF 125V P.C.	2B
C 607	0681018	0.22μF 400V M.C.	1B
C 608	0681018	0.22μF 400V M.C.	2B
C 613	0681033	1.0μF 250V M.C.	1B
C 614	0681033	1.0μF 250V M.C.	2B
C 617, 618	0681033	1.0μF 250V M.C.	
R 601	0210100	10Ω 1/2W N.I.R.	1B
R 602	0210100	10Ω 1/2W N.I.R.	2B
R 603	0210682	6.8kΩ 1/2W N.I.R.	1B
R 604	0210682	6.8kΩ 1/2W N.I.R.	2B
R 605	0210103	10kΩ 1/2W N.I.R.	1B
R 606	0210103	10kΩ 1/2W N.I.R.	2B
R 607	0210390	39Ω 1/2W N.I.R.	1B
R 608	0210390	39Ω 1/2W N.I.R.	2A
R 609	0210102	1.0kΩ 1/2W N.I.R.	1B
R 610	0210102	1.0kΩ 1/2W N.I.R.	2B
R 611	0210561	560Ω 1/2W N.I.R.	1B
R 612	0210561	560Ω 1/2W N.I.R.	2B
R 613	0210103	10kΩ 1/2W N.I.R.	2B
R 614	0210122	1.2kΩ 1/2W N.I.R.	2B
R 615	0210822	8.2kΩ 1/2W N.I.R.	2B
R 616	0210822	8.2kΩ 1/2W N.I.R.	2B
R 617	0210822	8.2kΩ 1/2W N.I.R.	1B
VR601	1034210, 1	1kΩ (B) −40V AVR Adj. Volume	1B
VR602	1034200, 1	680Ω (B) +40V AVR Adj. Volume	1B
F 01, 02	0432220	1A 250V AC Fuse	1A
F 03	0432210	0.5A 250V AC Fuse	1A

4-4. F-2992 Equalizer Amp Circuit Board (Stock No. 7551531)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
•Transistor			
TR01, 02	0306740, 1	2SC1845 F, E	1C. 2C
TR03, 04	0306740, 1	2SC1845 F, E	1C. 2C
TR05, 06	0308521, 2	2SD438 E, F	1C. 2C
TR07, 08	0301090, 1	2SA992 F, E	1C. 2C
TR09, 10	0306740, 1	2SC1845 F, E	1B. 2B
TR11, 12	0306740, 1	2SC1845 F, E	1B. 2B
TR13, 14	0306740, 1	2SC1845 F, E	1B. 2B
TR15, 16	0306740, 1	2SC1845 F, E	1B. 2B
TR17, 18	0301090, 1	2SA992 F, E	1B. 2B
TR19, 20	0301090, 1	2SA992 F, E	1B. 2B
TR21, 22	0301090, 1	2SA992 F, E	1B. 2B
TR23, 24	0301090, 1	2SA992 F, E	1A. 2A
TR25, 26	0301090, 1	2SA992 F, E	1A. 2A
TR27, 28	0306740, 1	2SC1845 F, E	1A. 2A
TR29, 30	0306740, 1	2SC1845 F, E	1A. 2A
TR31, 32	0301090, 1	2SA992 F, E	1A. 2A
TR33, 34	0308521, 2	2SD438 E, F	1A. 2A
TR35, 36	0303361, 2	2SB560MP E, F	1A. 2A
•FET			
FET01, 02	0370321, 2	2SK131 L, M	1C. 2C
•Varistor			
D 01, 02	0340170	MV103	1B. 2B
D 03, 04	0340170	MV103	1B. 2B
D 05, 06	0340170	MV103	1A. 2A
•Zener Diode			
ZD01, 02	0316550	RD30E B	1C. 2C
C 01, 02	0622151	150pF 125V P.C.	1C. 2C
C 03, 04	0623220	22pF 125V P.C.	1C. 2C
C 05, 06	0681013	0.033μF 400V	1B. 2B
C 09, 10	0681018	0.22μF 400V	1C. 2C
C 15, 16	0681018	0.22μF 400V	1C. 2C
C 23, 24	0680014	0.0036μF 100V	1B. 2B
C 25, 26	0681013	0.033μF 400V	1B. 2B
C 29, 30	0680001	0.001μF 100V	1C. 2C
C 31, 32	0623309	3pF 125V P.C.	1A. 2A
C 33, 34	0623309	3pF 125V P.C.	1A. 2A
C 35, 36	0680001	0.001μF 100V M.C.	1A. 2A
C 37, 38	0623220	22pF 125V P.C.	1A. 2A
C 41, 42	0681014	0.047μF 400V M.C.	1A. 2A
C 43, 44	0680001	0.001μF 100V M.C.	1A. 2A
C 45, 46	0623220	22pF 125V P.C.	1A. 2A
C 47, 48	0622202	2000pF 125V P.C.	1B. 2B
C 49, 50	0682023	0.033μF 100V M.C.	1B. 2B
C 51, 52	0682037	0.12μF 100V M.C.	1B. 2B
C 53, 54	0681001	0.47μF 250V M.C.	1A. 2A
C 59, 60	0680013	0.0033μF 100V M.C.	1A. 2A
C 61, 62	0622391	390pF 125V P.C.	3A
C 63, 64	0680035	0.027μF 100V M.C.	3A
R 15, 16	0210681	680Ω 1/2W N.I.R.	1C. 2C
R 19, 20	0210182	1.8kΩ 1/2W N.I.R.	1C. 2C
R 63, 64	0210121	120Ω 1/2W N.I.R.	1A. 2A
R 67, 68	0210121	120Ω 1/2W N.I.R.	1A. 2A
R 73, 74	0191100	10Ω 1/4W F.R.	1A. 2A
R 75, 76	0191331	330Ω 1/4W F.R.	1A. 2A
R 77, 78	0191331	330Ω 1/4W F.R.	1A. 2A
R 79, 80	0191100	10Ω 1/4W F.R.	1A. 2A
R 81, 82	0210330	33Ω 1/2W N.I.R.	1A. 2A
R 83, 84	0210330	33Ω 1/2W N.I.R.	1A. 2A
VR01, 02	1034190, 1	470Ω B DC 0V Adj. Volume	1B. 2B
VR03	1015520, 1	250kΩ MN x 2 Balance Volume	3A
S 01	1102770	Function Switch	1D
S 02	1101910	Tape Play Switch	3C

Note: The circuit board F-3051 is not supplied as the assembled, the individual parts on the circuit board, however, are provided for orders.

4-5. F-3051 Loudness Switch Circuit Board

Parts List

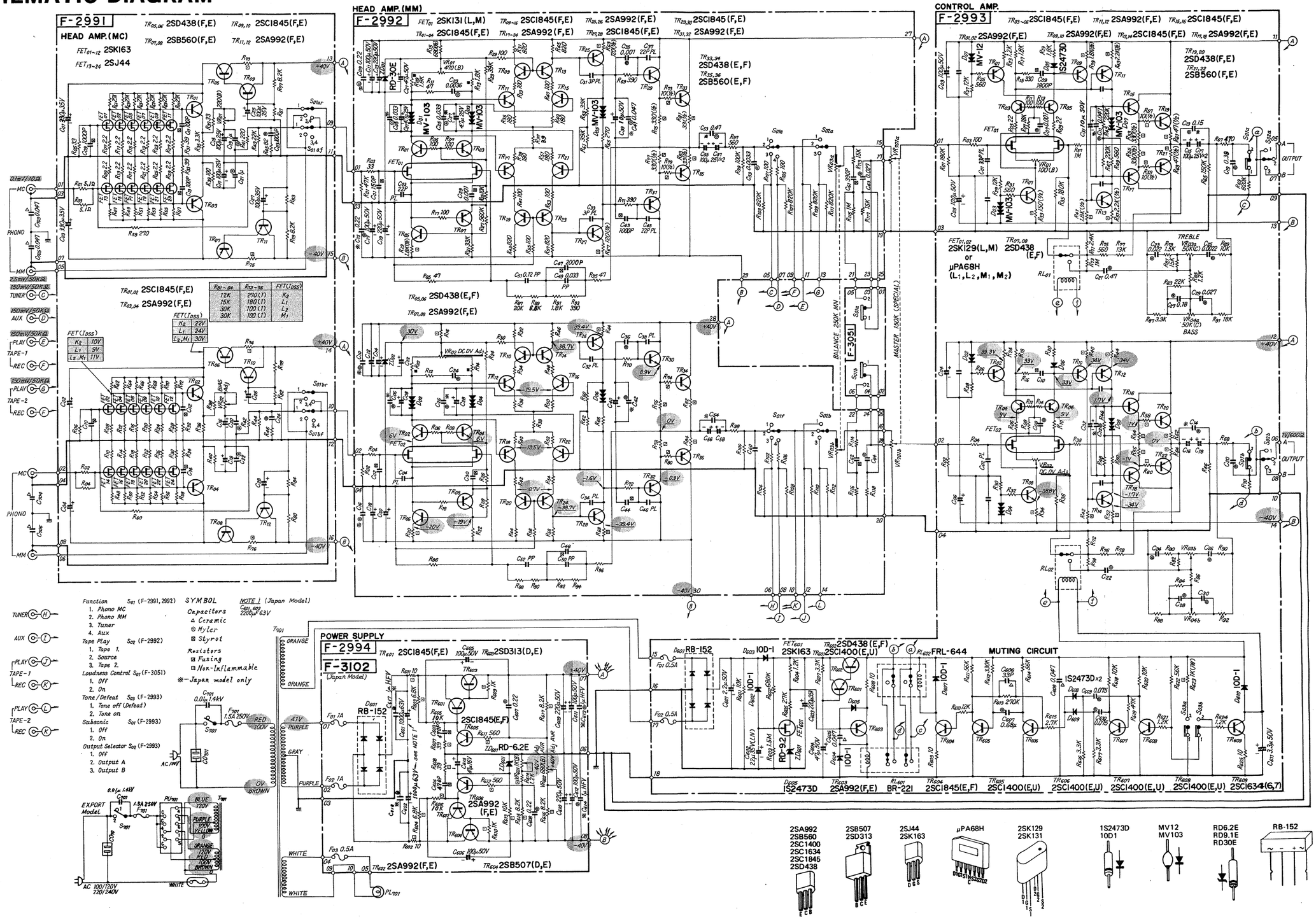
Parts No.	Stock No.	Description
S 01	1131930	Loudness Switch

Abbreviations

C.R.	: Carbon Resistor	E.C.	: Electrolytic Capacitor
S.R.	: Solid Resistor	BP.E.C.	: Bi-Polar Electrolytic Capacitor
Ce.R.	: Cement Resistor		
M.R.	: Metal Film Resistor	C C.	: Ceramic Capacitor
		Mi.C.	: Mica Capacitor
F.R.	: Fusing Resistor	O.C.	: Oil Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
		T.C.	: Tantalum Capacitor
M.C.	: Mylar Capacitor		

- Design and specifications subject to change without notice for improvement.
- La présentation et les spécifications sont susceptibles d'éter modifiées sans préavis par suites d'amélioratons éventuelles.
- Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

5. SCHEMATIC DIAGRAM



2SA992 2SB560 2SC1400 2SC1634 2SC1845 2SD438

2SB507 2SD313

2SJ44 2SK163

μPA68H

2SK129 2SK131

1S2473D 10D1

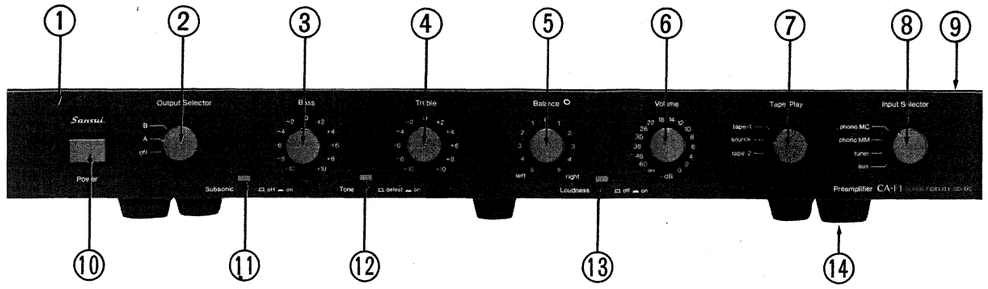
MV12 MV103

RD6.2E RD9.1E RD30E

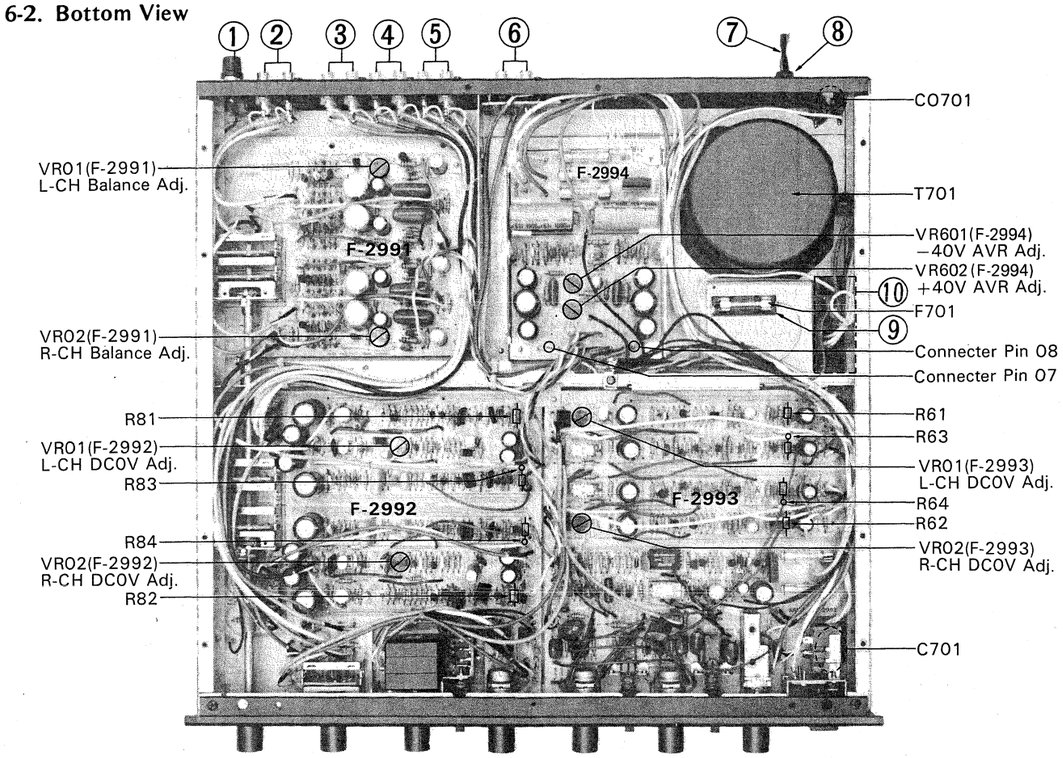
RB-152

6. OTHER PARTS

6-1. Front View



6-2. Bottom View



Parts List <Front View>

Parts No.	Stock No.	Description
1	7008291	Front Panel Ass'y
	5281210	Knob Guide
	5281390	Knob Guide
	5336700	Sansui Badge
2	5319271	Knob, output selector
	1190670	Output Selector (F-2993)
3	5319271	Knob, bass volume
	1015510, 1	Bass Volume, 50kΩ x 2
4	5319271	Knob, treble volume
	1015510, 1	Treble Volume, 50kΩ x 2
5	5319271	Knob, balance volume
	1015520, 1	Balance Volume, 250kΩ (MN) x 2
6	5319271	Knob, master volume
	1090510	Master Volume, 150kΩ x 2
7	5319271	Knob, tape play
	1101910	Tape Play Selector
8	5319271	Knob, input selector
	1102780	Input Selector (F-2991)
	1102770	Input Selector (F-2992)
9	5006990	Bonnet
10	7106390	Push Switch Knob, power
	1131890	Power Switch
	7726230	Power Indicator Lamp Ass'y
11	5326800	Push Switch Knob, subsonic
	1131930	Subsonic Switch
12	5326800	Push Switch Knob, tone/defeat
	1131930	Tone/defeat Switch
13	5326800	Push Switch Knob, loudness
	1131930	Loudness Switch
14	5507350	Leg

Parts List <Bottom View>

Parts No.	Stock No.	Description
1	2230190	Ground Terminal
2	2200660	4P Input Terminal, phono
3	2200620	4P Input Terminal, tuner, aux
4	2200650	4P Input Terminal, tape-1
5	2200650	4P Input Terminal, tape-2
6	2200580	4P Input Terminal, output
7	3800470, 1	Power Cord
8	3910600	Strain Relief
9	2310250	Fuse Holder
10	2410091	Voltage Selector Plug
	2410830	Voltage Selector Socket
CO701	2450070	AC Outlet
T 701	4003020	Power Transformer
F 701	0432230	1.5A 250V Power Fuse
C 701	0659801	0.01μF 150V C.C.

7. MAIN PARTS REPLACEMENT

1) Front Panel Replacement

1 Remove bonnet & bottom plate.
2 Pluck out the knobs.
3 Loosen 5 screws fixing front panel from top and bottom sides.

2) Master Volume Replacement

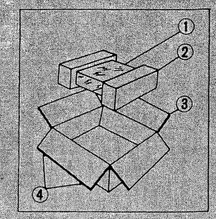
1 Remove front panel as the same procedure as the front panel replacement above.
2 Remove blind sheet by holding it from top and bottom sides.
3 Loosen the nut fixing master volume.

3) Power Indicator Lamp Replacement

1 Remove Front Panel as the same procedure as the front panel replacement.
2 Pull out power switch knob.
3 Pluck out the lamp from the circuit board to hold the rubber part fixing the lamp.

8. PACKING LIST

Parts No.	Stock No.	Description
1	9116790	Vinyl Cover
2	9028330	Styrofoam Packing
3	9001780	Carton Case
4	5996080	Curl Stopper



9. ACCESSORY PARTS LIST

	Stock No.	Description
	9204060	Operating Instructions
	9238150	Schematic Diagram
	5396760	Rack Mounting Adaptor (each)

MEMO

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